

THE THERMAL-LUBE

SYNTHETIC ESTER COMPRESSOR OIL

XL7331

 July 2022

XL7331 is a fully formulated synthetic ester-based compressor oil for all working conditions – from light, intermittent loads to continuous heavy loads. It is designed to keep "hot" compressors "cool" and running up to 12,000 hours between oil changes. When used in conjunction with a comprehensive fluid monitoring and treatment system, fluid life can be extended up to twice as long, up to 24,000 hours.*

XL7331 has incorporated a revolutionary new concept in "High Temperature" rust and oxidation inhibitors that remain active even at elevated temperatures.

XL7331 is designed to prevent gumming, sludge, resin, and carbon formation in valves and other working parts of compressors with excellent filtration.

ADVANTAGES

- Non-Carbonizing
- Anti-Wear
- Anti-Foam
- Highly Resistant to Chemical Breakdown
- High Temperature Stability

XL7331 meets the strictest criteria of compressor manufacturers.

*Based on oil analysis results

TYPICAL SPECIFICATIONS

Product Code: XL7331	/022	/032	/046	/068	/100	/150	/220
ISO Grade	22	32	46	68	100	150	220
Viscosity (cSt @ 40°C) (ASTM D445)	23.5	32.5	43.1	63.5	100	156.3	235
(cSt @ 100°C) (ASTM D445)	4.8	5.5	6.6	8.5	11.5	16.8	24.0
Viscosity Index	128	105	105	104	110	115	128
Flash Point (°C)	202	210	214	222	225	225	248
Pour Point (°C) (ASTM D97)	-58	-47	-40	-40	-35	-30	-18
Specific Gravity (g/ml)	0.95	0.893	0.884	0.890	0.899	0.94	0.916
Colour	Amber						



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PERFORMANCE CHARACTERISTICS (ISO VG 46) - DIN 51506		
Characteristics	Test Method	Result
Conradson Carbon Residue, % (max 3)	DIN 51352 pt 2** VDL ISO 6617 pt 2	1.7
Oxidation Stability Total Sludge, % Volatile Acidity, mg/g Soluble Acidity, mg/g Total Oxidation Product, %	IP 280	0.02 0.05 0.21 0.12
Corrosion-Oxidation Stability Increase in Neutralization Number, mg KOH/g	FTM	2.1
RBOT Oxidation (minutes to 25 psi pressure drop)	ASTM D2272	1800
Oxidation Stability Hours to 2.0 mg KOH/g acid number	ASTM D943	8000+
Copper Corrosion	ASTM D130	1b
Steel Corrosion Procedure A Procedure B	ASTM D665 Pass Pass	
Water Separability	ASTM D1401	40-40-0 (15)
Foam Sequence I Sequence II Sequence III		0/0 0/0 10/0
Wear, Four Ball, Scar, mm Conditions - 40 kg, 1800 rpm, 130°F, 1 hr	ASTM D4172	0.4

** Highest requirement in terms of temperature with iron oxide catalyst is VDL. VC/VCL and VB/VBL are for lower temperatures.



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